

WASHINGTON STATE TOXICOLOGY LABORATORY
FORENSIC LABORATORY SERVICES BUREAU
 WASHINGTON STATE PATROL
 2203 AIRPORT WAY S, SUITE 360
 SEATTLE, WASHINGTON 98134-2027
 (206) 464-5435 FAX (206) 389-2738

Preparation and certification of **0.08 g/210L Quality Assurance solution**

Batch number **03002**

Date: 1/8/2003

Preparation: 22.2 mL of absolute ethyl alcohol diluted to 18 Liters with water

Concentration of ethanol (g/100mL) measured by gas chromatography:

	Anal 1	Anal 2	Anal 3	Anal 4	Anal 5	Anal 6	Anal 7	Anal 8	Anal 9	Anal 10	Anal 11	Anal 12
1	0.099	0.099	0.097									
2	0.100	0.099	0.098									
3	0.100	0.099	0.098									
4	0.100	0.099	0.098									
5	0.100	0.099	0.098									
Ctrl	0.101	0.101	0.100									

External Control:

Lot #: A021986 Exp date: 01/05

Target concentration: 0.10 g/100mL

Statistics:

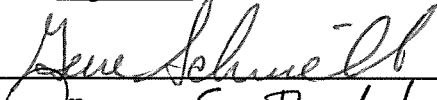
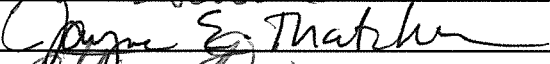
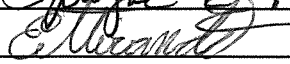
Avg. solution concent.: 0.0989 g/100 mL

SD: 0.00092

Range (3xSD): 0.0961 to 0.1016

Precision CV (%): 0.9260 %

Equivalent vapor concent.: 0.0804 g/210L

Analyst	Name	Signature	Date
1	Eugene Schwilke		01/10/03
2	Jayne Thatcher		01/08/03
3	Estuardo J. Miranda		01/11/03
4			
5			
6			
7			
8			
9			
10			
11			
12			

Prepared by: Eugene Schwilke  according to the approved protocol



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New Phone: 206/262-6100 New Fax: 206/262-6145

BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION


I, Eugene W. Schwilke, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the alcohol solutions for the BAC Verifier Data Master breath testing instrument.

I possess the following qualifications: BS degree in Biology, Board Certification from the American Board of Forensic Toxicology, and five years of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 03002 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0989 grams per 100ml.

Dated: 1/13/03
Seattle, WA


Eugene W. Schwilke, A.B.F.T.
Forensic Toxicologist

GS/nf
GSQA





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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

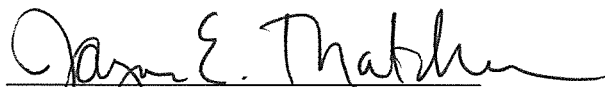
I, Jayne E. Thatcher, do certify under penalty of perjury as follows:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the alcohol solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: B.S. degree in Cell and Molecular Biology and two years experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 03002, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0989 grams per 100ml.

Dated: 1/13/03
Seattle, WA


Jayne E Thatcher
Forensic Toxicologist

JET/nf
JTQA





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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

I, Estuardo J. Miranda, do certify under penalty of perjury as follows:

I am employed by the Washington State Toxicology Laboratory; and a part of my responsibilities includes preparing and testing the alcohol solutions for the BAC Verifier Data Master breath testing instrument.

I possess the following qualifications: Bachelor of Science in Chemistry, Master of Science in Zoology, seven years experience in biochemical research and four years experience in Forensic Toxicology.

The quality assurance solution, Lot Number 03002 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of alcohol was 0.0989 grams per 100mL.

Dated: 1/13/03
Seattle, WA

Estuardo J. Miranda
Forensic Toxicologist

EM/nf
EMQA

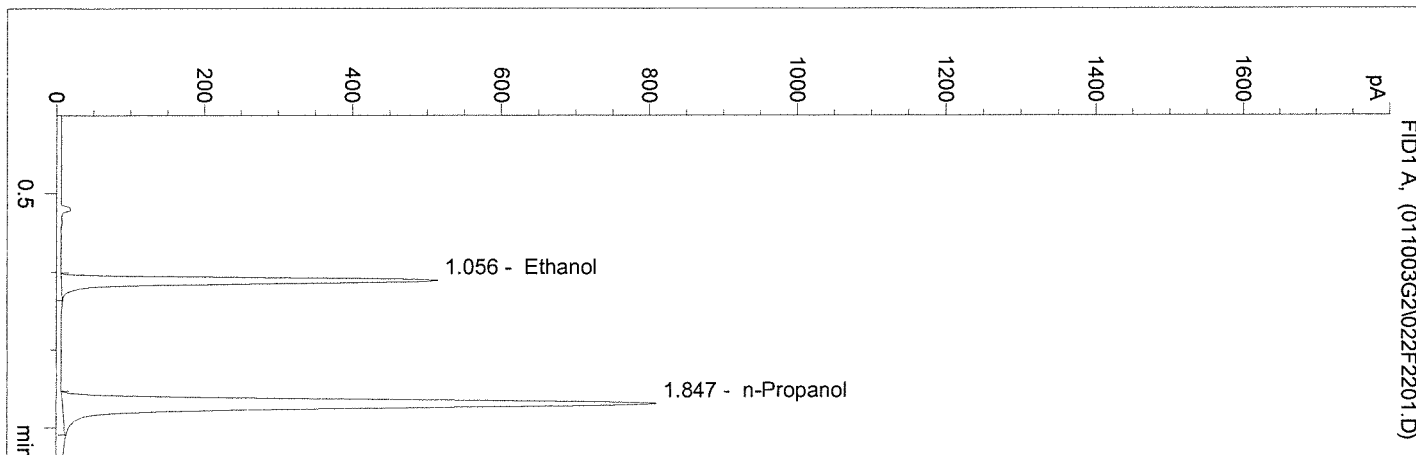


WASHINGTON STATE TOXICOLOGY LABORATORY

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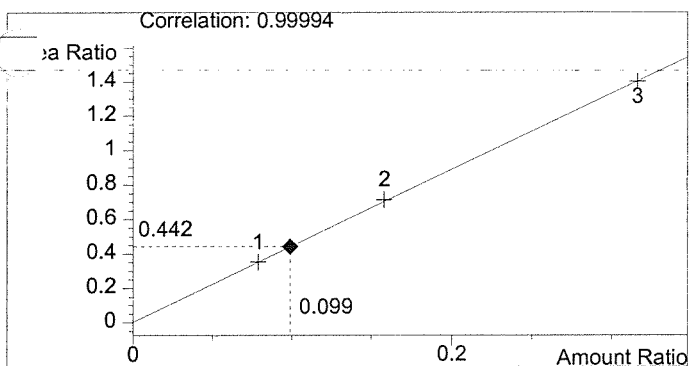
0.08QASOL 03002
 GENE SCHWILKE

vial # 22

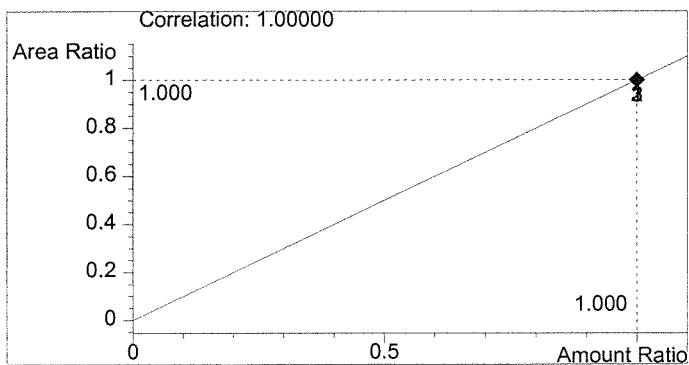


#	Compound	Area	RT
1	Ethanol	1388	1.056
2	n-Propanol	3139	1.847

Totals:



Ethanol 0.099 g/100ml

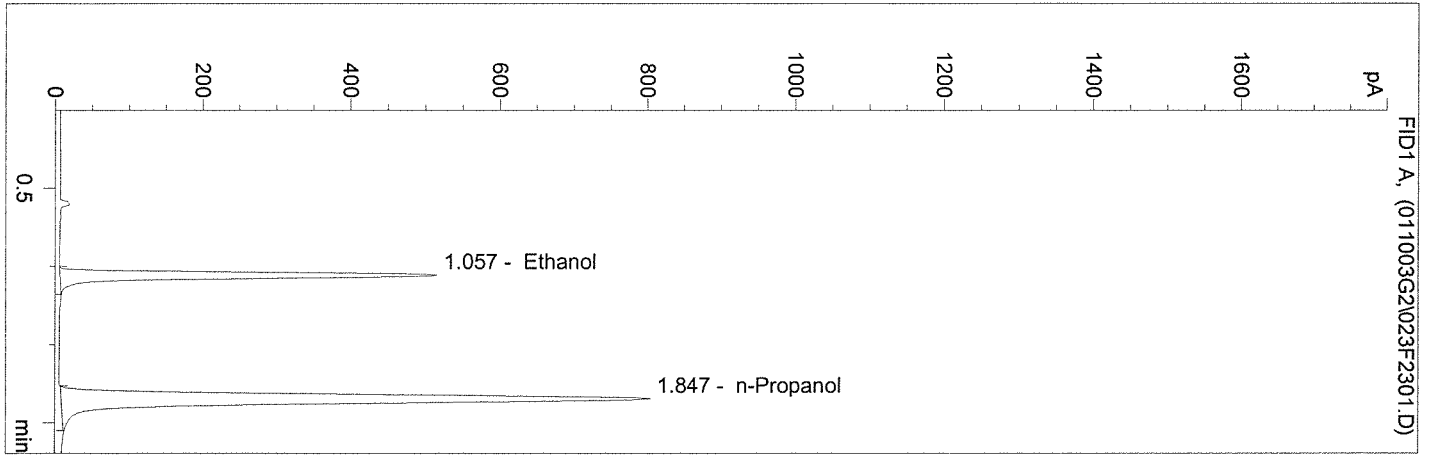


n-Propanol 1.000 g/100ml

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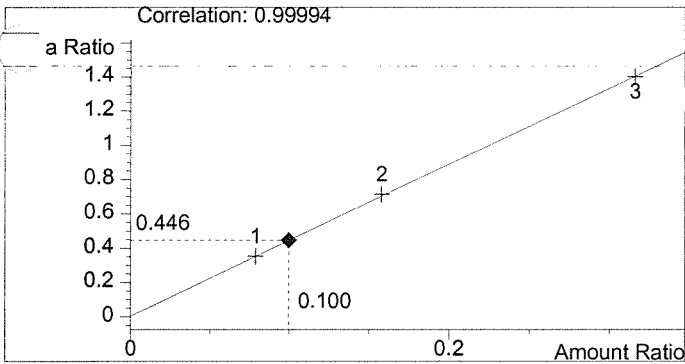
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0.08QASOL 03002
 GENE SCHWILKE
 vial # 23

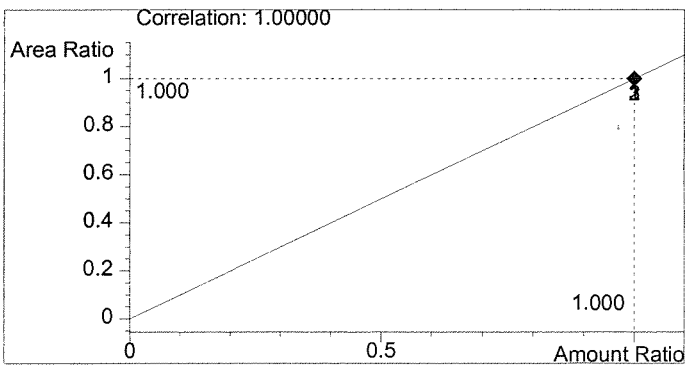


#	Compound	Area	RT
1	Ethanol	1390	1.057
2	n-Propanol	3118	1.847

Totals:



Ethanol 0.100 g/100ml



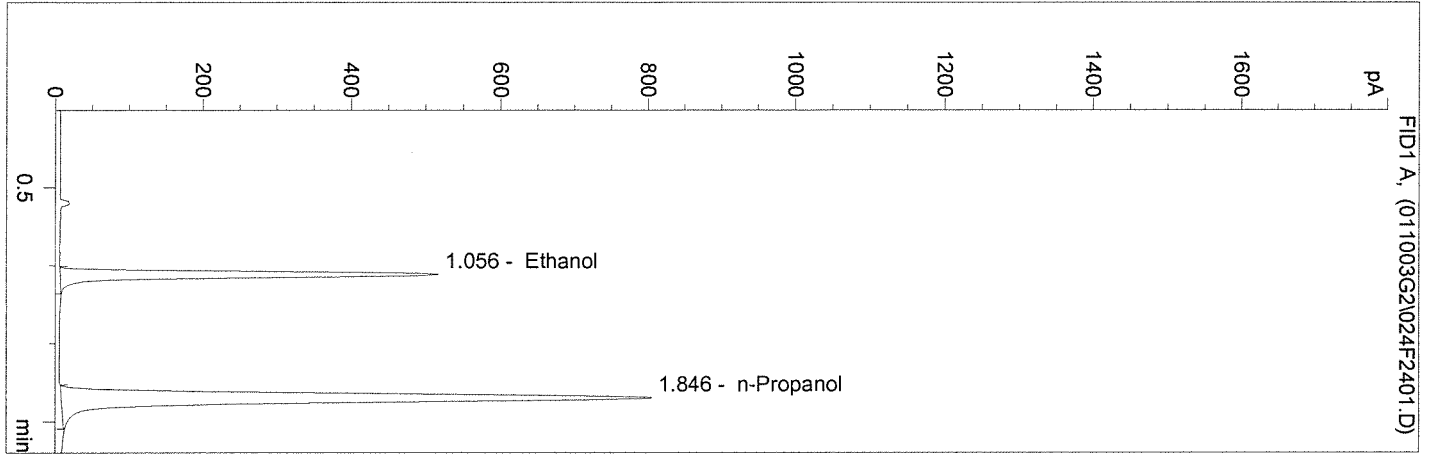
n-Propanol 1.000 g/100ml

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 Instrument 2
 -ALC1

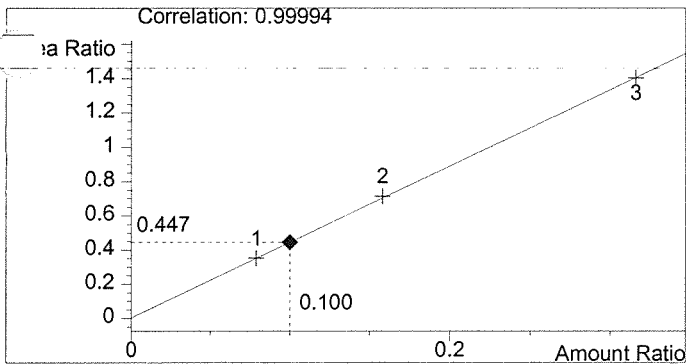
0.08QASOL 03002
 GENE SCHWILKE

vial # 24

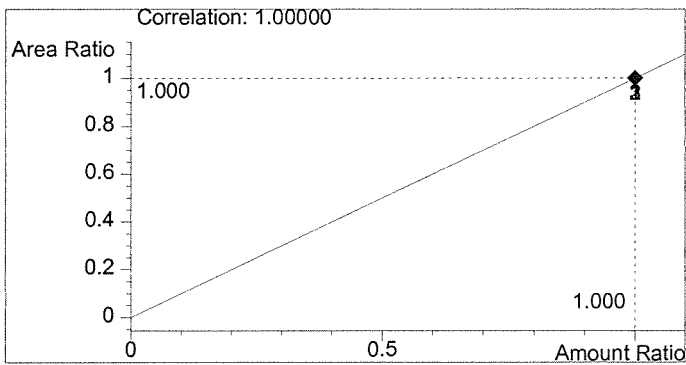


#	Compound	Area	RT
1	Ethanol	1395	1.056
2	n-Propanol	3120	1.846

Totals:



Ethanol 0.100 g/100ml

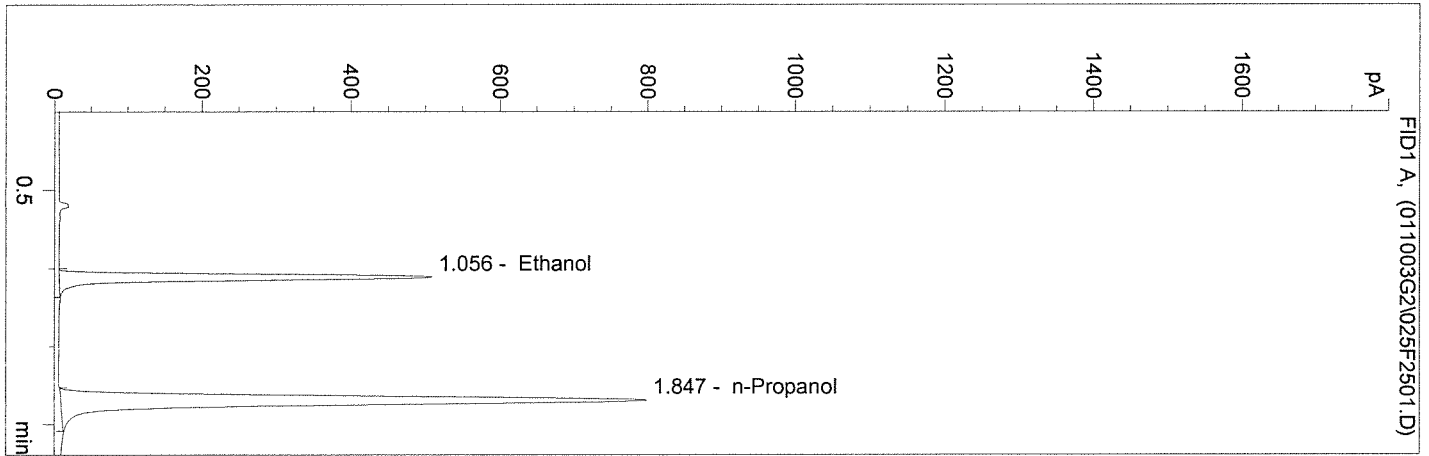


n-Propanol 1.000 g/100ml

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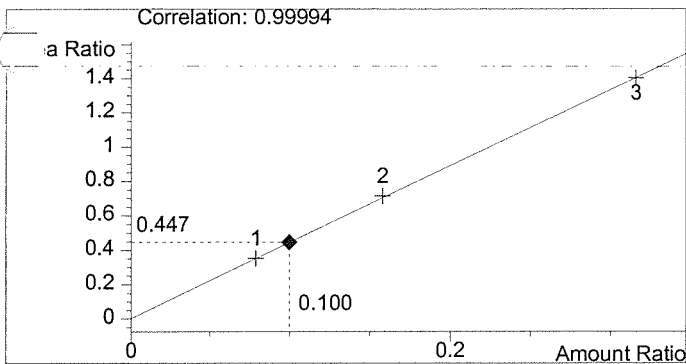
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0.08QASOL 03002
 GENE SCHWILKE
 vial # 25

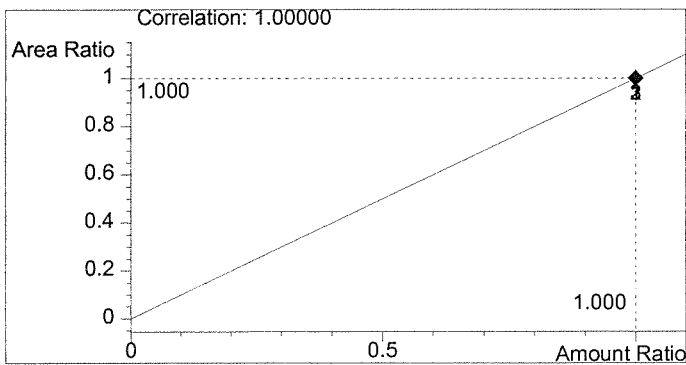


#	Compound	Area	RT
1	Ethanol	1379	1.056
2	n-Propanol	3088	1.847

Totals:



Ethanol 0.100 g/100ml

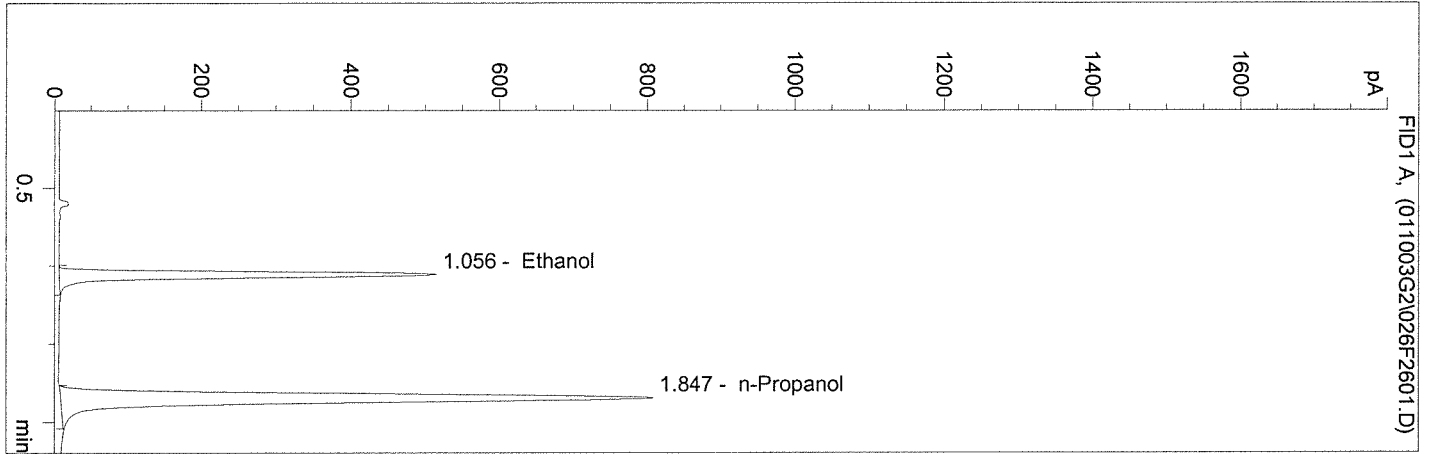


n-Propanol 1.000 g/100ml

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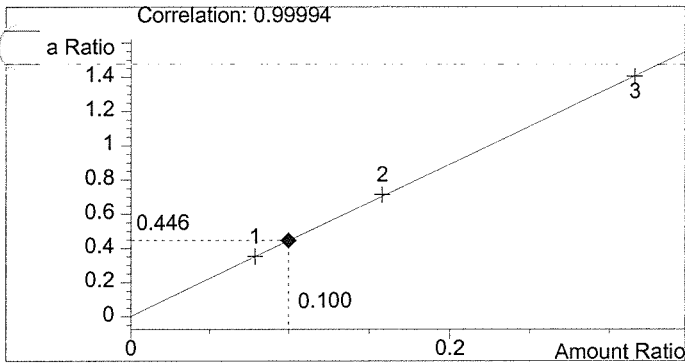
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 Instrument 2
 -ALC1

0.08QASOL 03002
 GENE SCHWILKE
 vial # 26

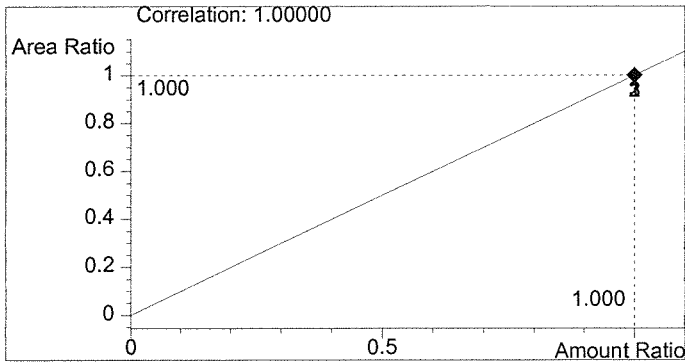


#	Compound	Area	RT
1	Ethanol	1397	1.056
2	n-Propanol	3130	1.847

Totals:



Ethanol 0.100 g/100ml

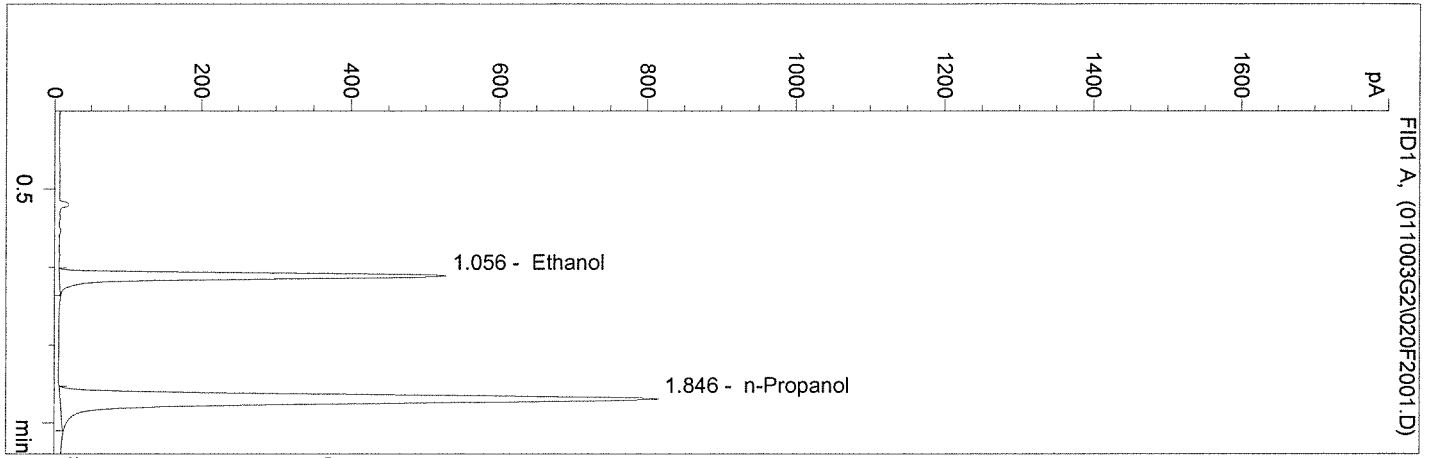


n-Propanol 1.000 g/100ml

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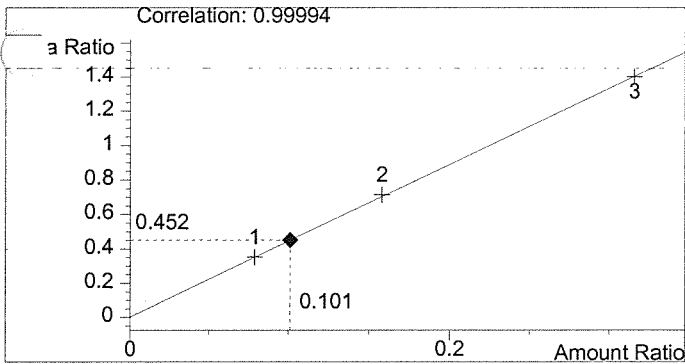
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 Instrument 2
 -ALC1

CAP 0.100
 GENE SCHWILKE
 vial # 20

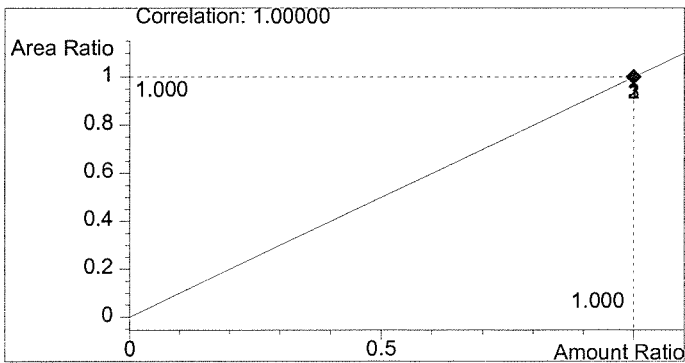


#	Compound	Area	RT
1	Ethanol	1425	1.056
2	n-Propanol	3153	1.846

Totals:



Ethanol 0.101 g/100ml



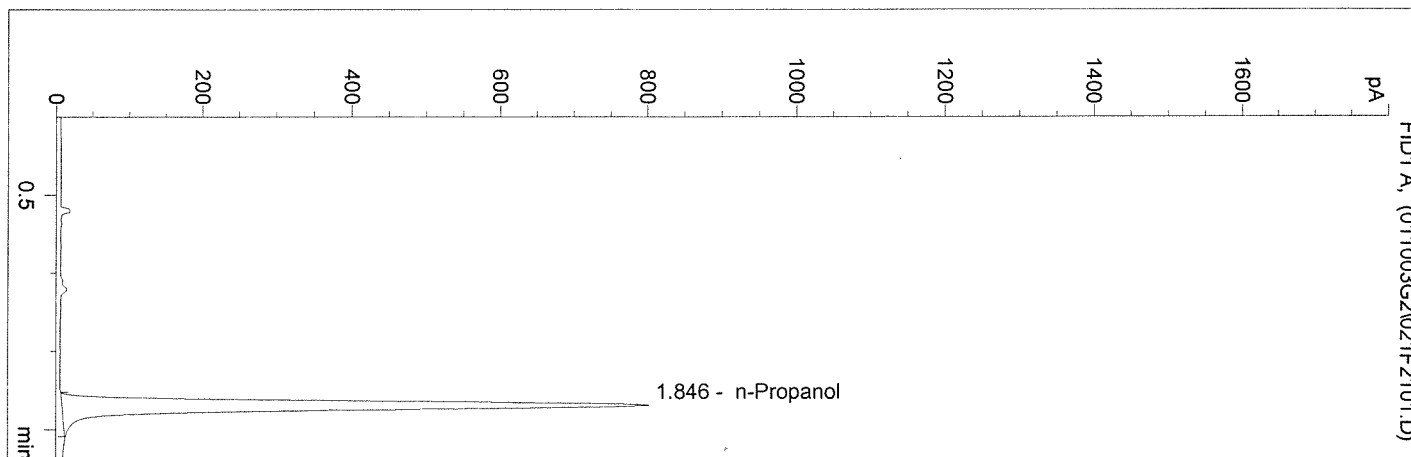
n-Propanol 1.000 g/100ml

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 Instrument 2
 -ALC1

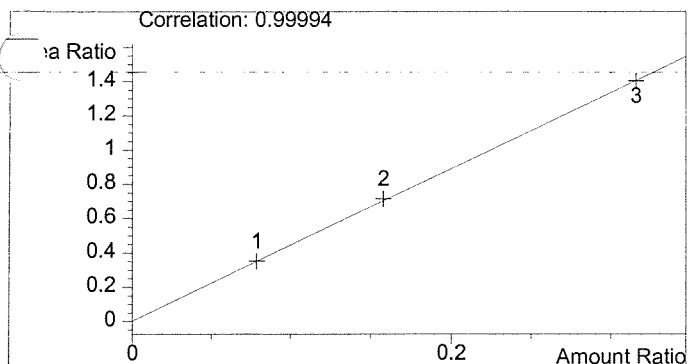
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 GENE SCHWILKE

vial # 21

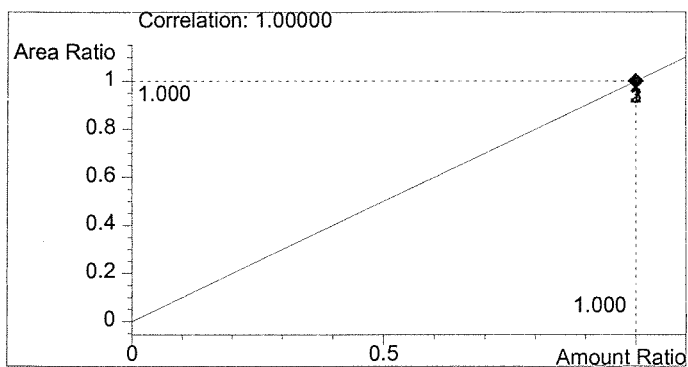


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3107	1.846

Totals:



Ethanol 0.000 g/100ml



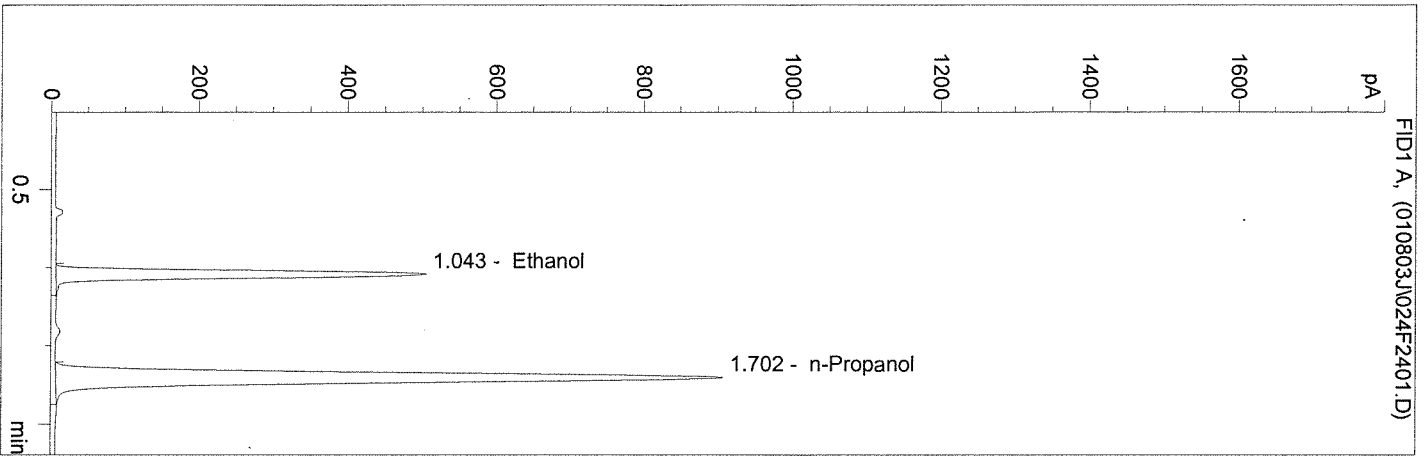
n-Propanol 1.000 g/100ml

03002

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 Instrument 1
 DS-ALC1

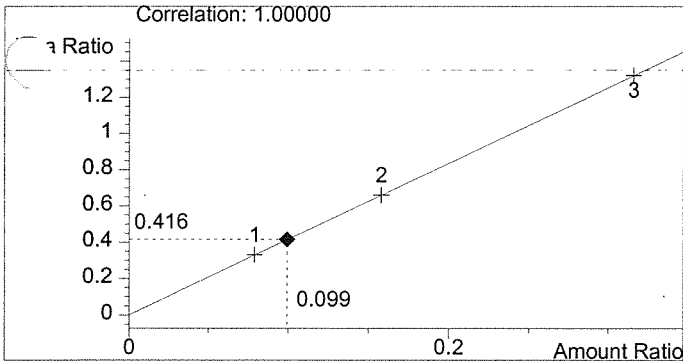
.08 QA Solution
 Jayne E. Thatcher

vial. # 24

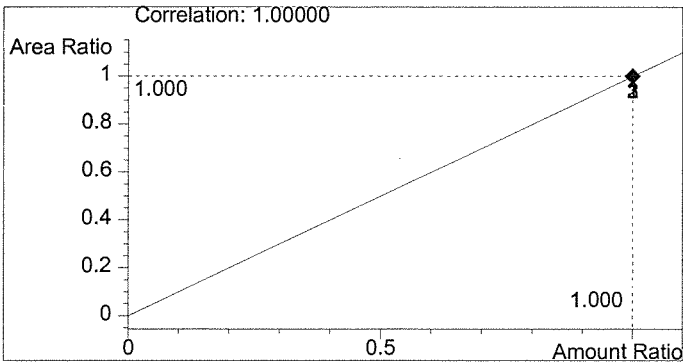


#	Compound	Area	RT
1	Ethanol	1610	1.043
2	n-Propanol	3871	1.702

Totals:



Ethanol 0.099 g/100ml



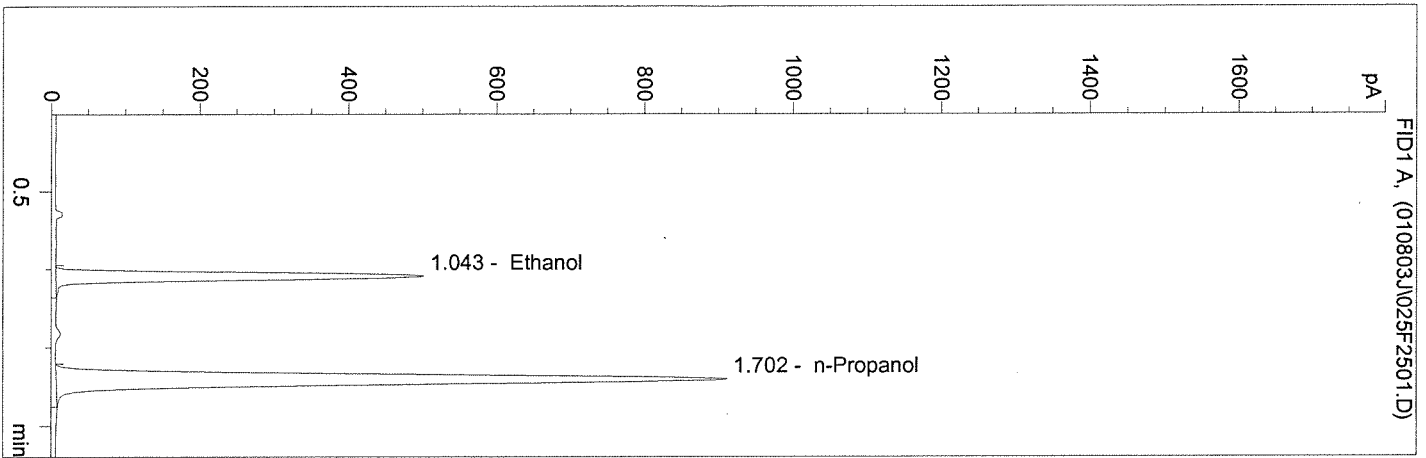
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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 Instrument 1
 DE-ALC1

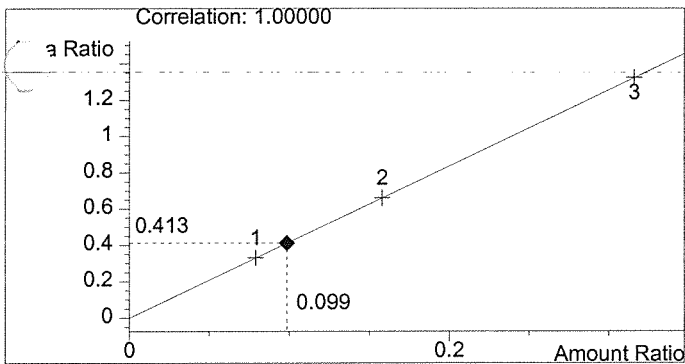
.08 QA Solution
 Jayne E. Thatcher

vial # 25

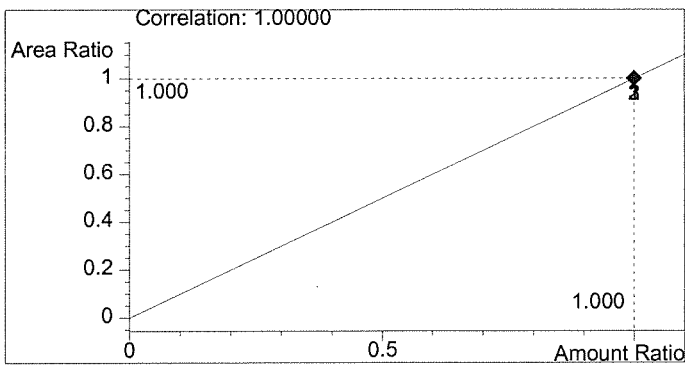


#	Compound	Area	RT
1	Ethanol	1610	1.043
2	n-Propanol	3902	1.702

Totals:



Ethanol 0.099 g/100ml



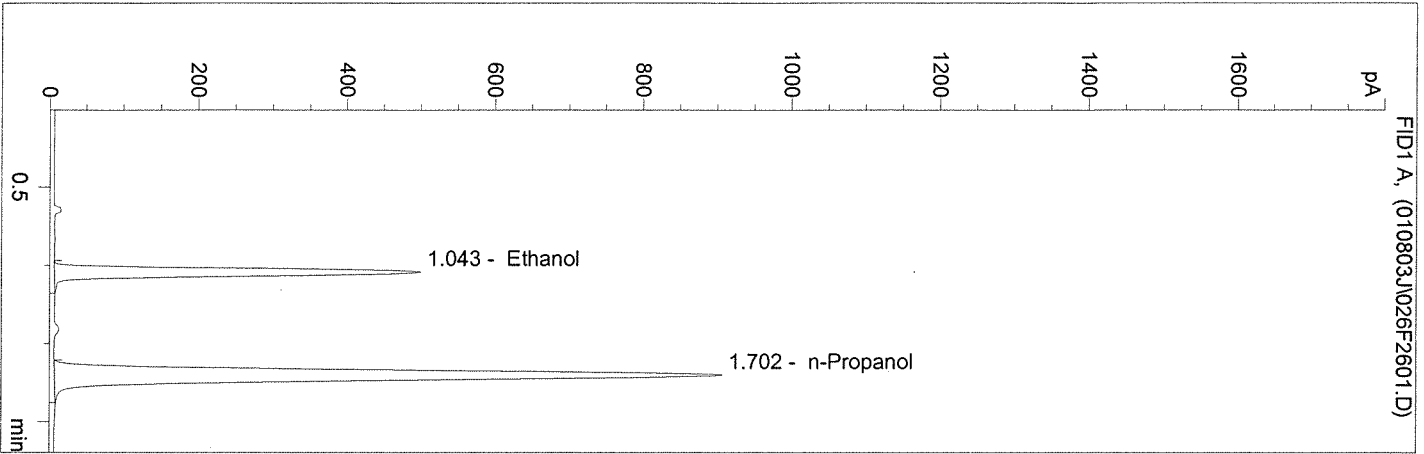
n-Propanol 1.000 g/100ml

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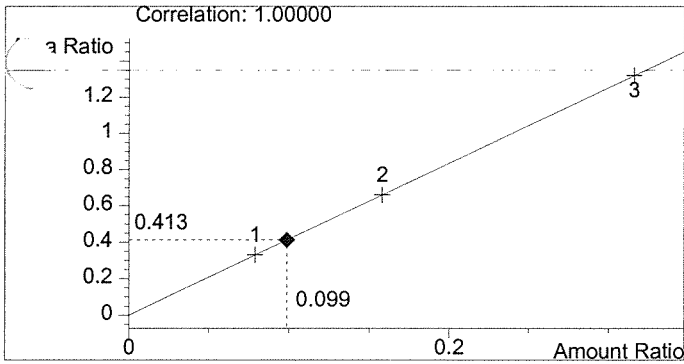
.08 QA Solution
 Jayne E. Thatcher

vial # 26

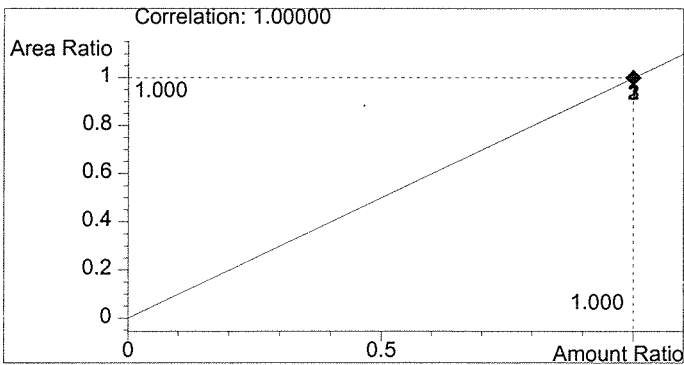


#	Compound	Area	RT
1	Ethanol	1602	1.043
2	n-Propanol	3879	1.702

Totals:



Ethanol 0.099 g/100ml



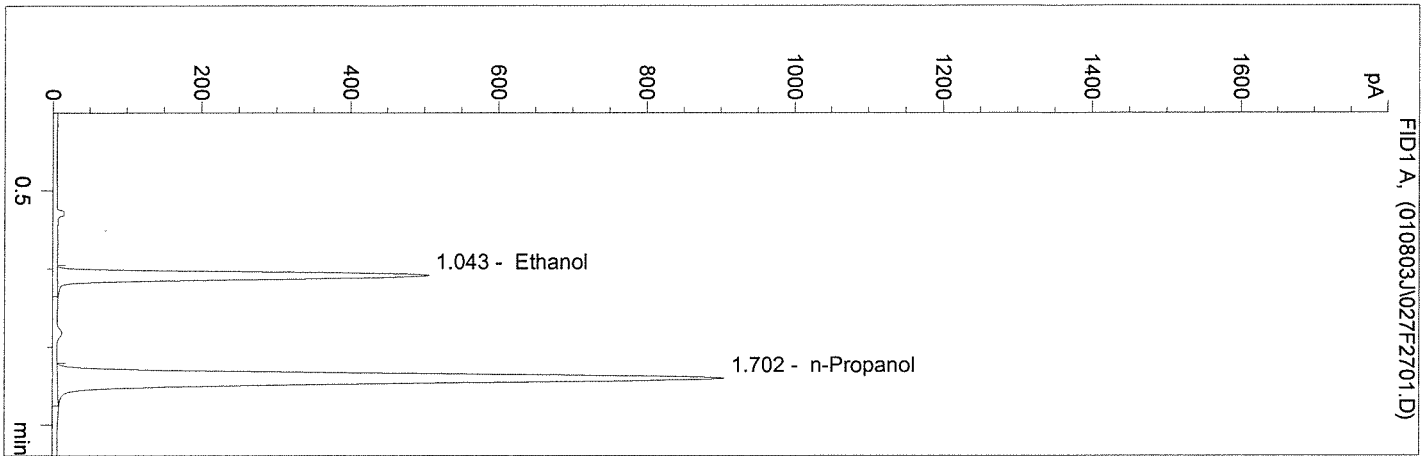
n-Propanol 1.000 g/100ml

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 DB-ALC1

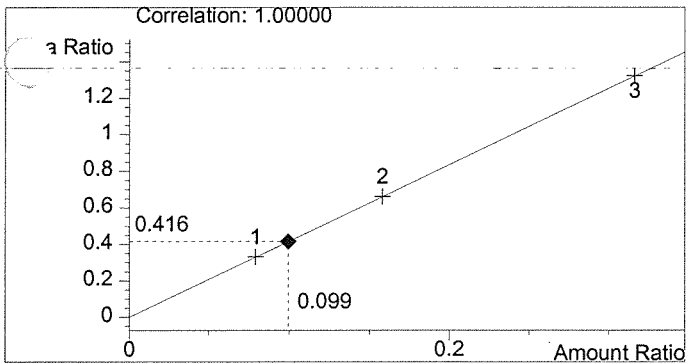
.08 QA Solution
 Jayne E. Thatcher

vial # 27

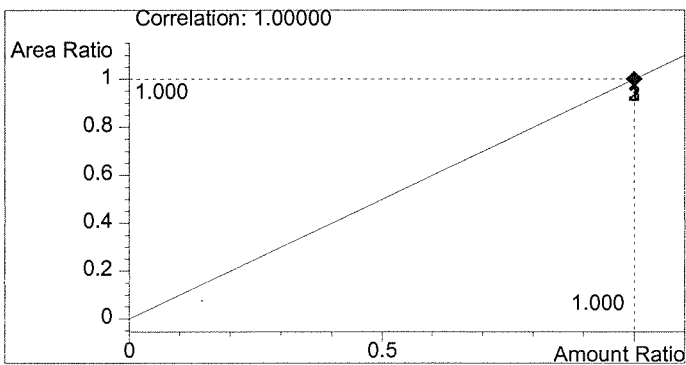


#	Compound	Area	RT
1	Ethanol	1597	1.043
2	n-Propanol	3843	1.702

Totals:



Ethanol 0.099 g/100ml



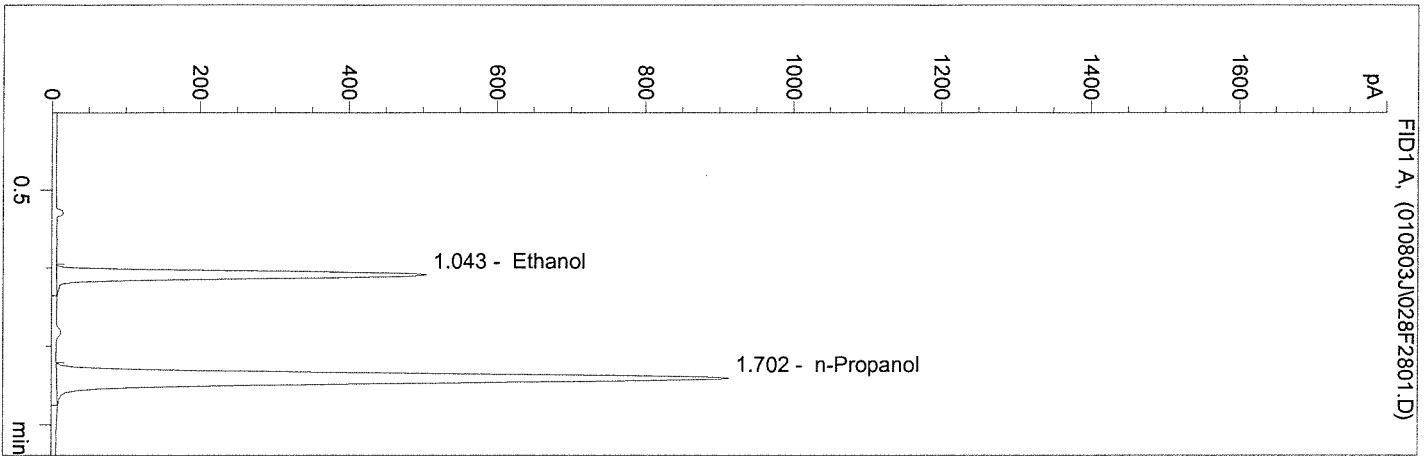
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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 Instrument 1
 DE-ALC1

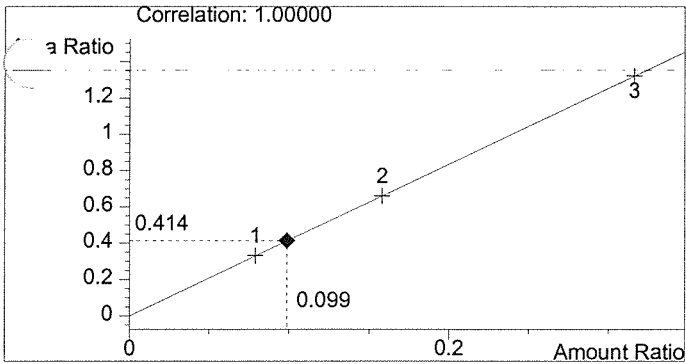
.08 QA Solution
 Jayne E. Thatcher

vial # 28

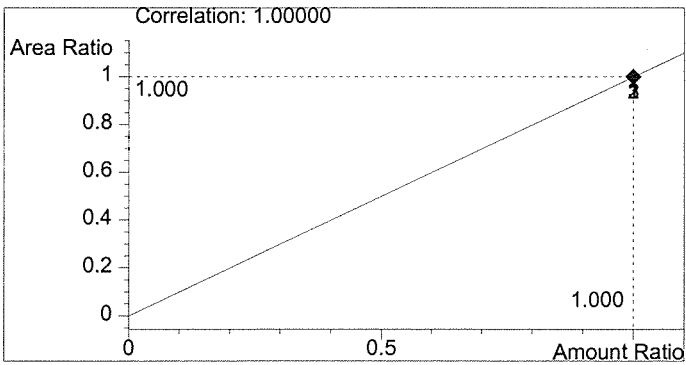


#	Compound	Area	RT
1	Ethanol	1615	1.043
2	n-Propanol	3905	1.702

Totals:



Ethanol 0.099 g/100ml



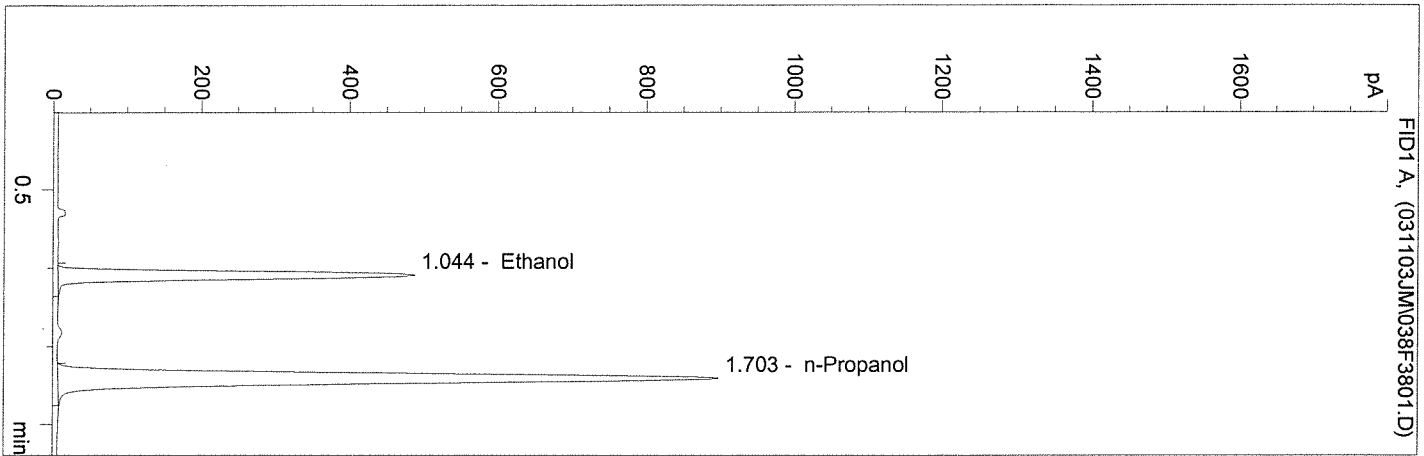
n-Propanol 1.000 g/100ml

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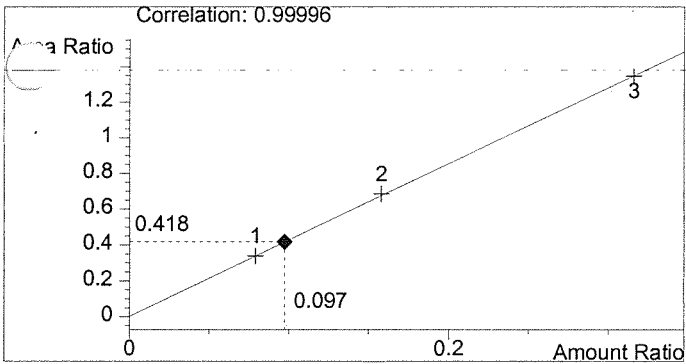
Q.A. Sol. 03002
 Estuardo J. Miranda

vial # 38

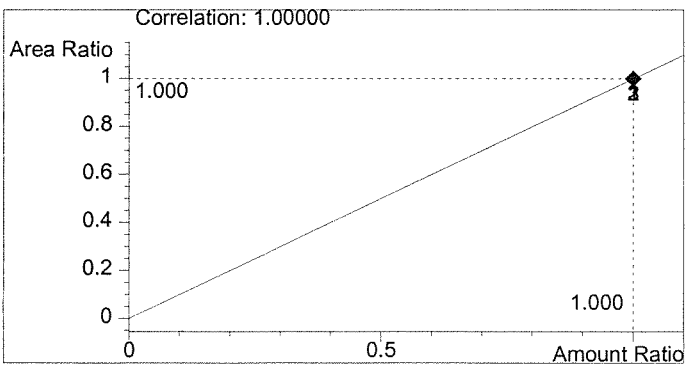


#	Compound	Area	RT
1	Ethanol	1626	1.044
2	n-Propanol	3891	1.703

Totals:



Ethanol 0.097 g/100ml



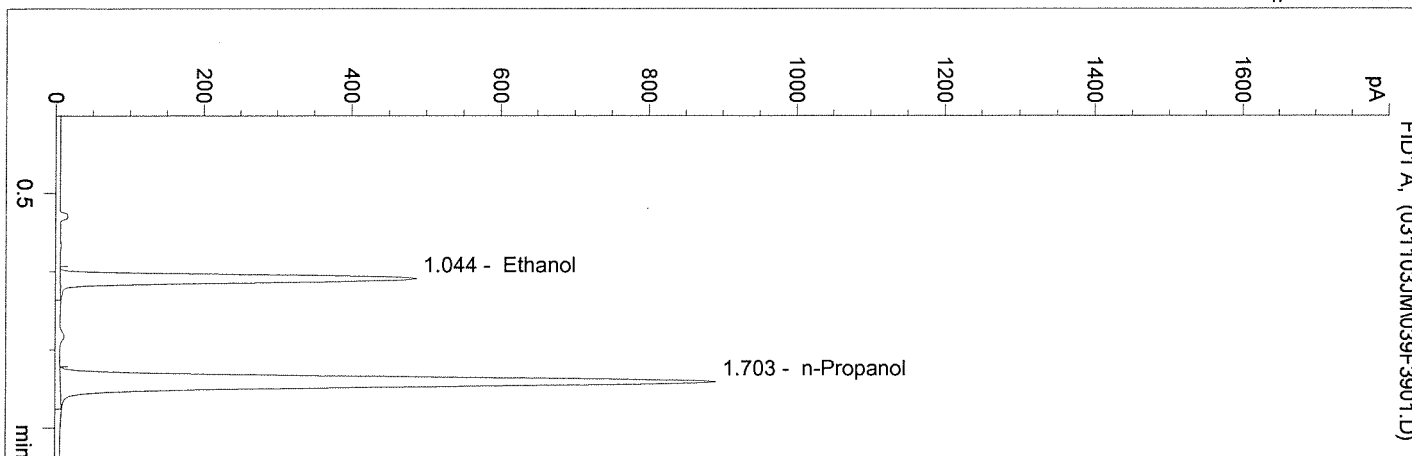
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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 Instrument 1
 -ALC1

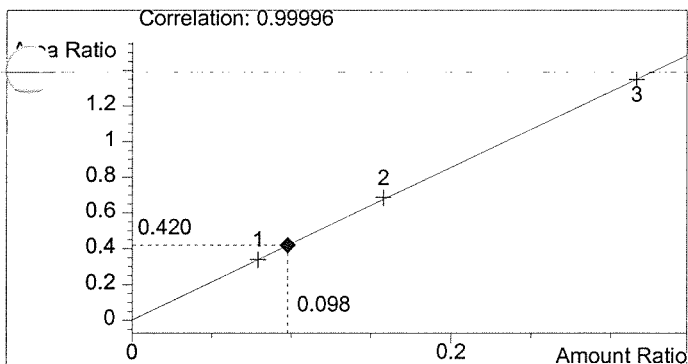
Q.A. Sol. 03002
 Estuardo J. Miranda

vial # 39

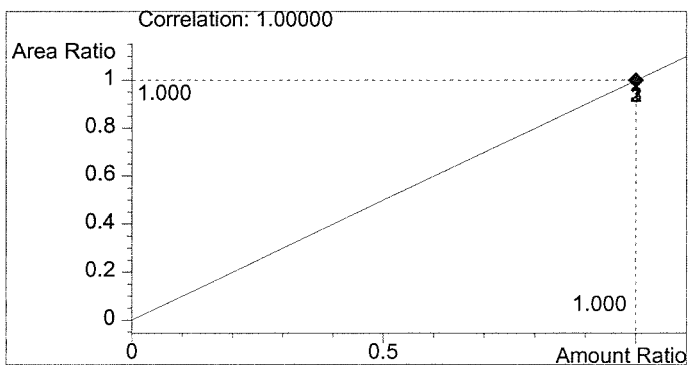


#	Compound	Area	RT
1	Ethanol	1626	1.044
2	n-Propanol	3870	1.703

Totals:



Ethanol 0.098 g/100ml



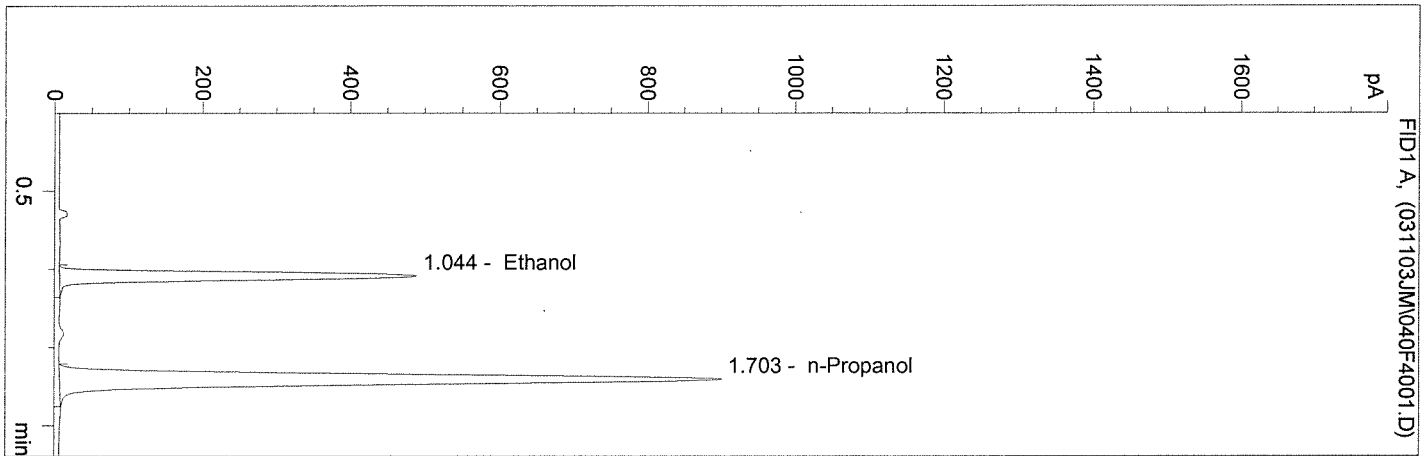
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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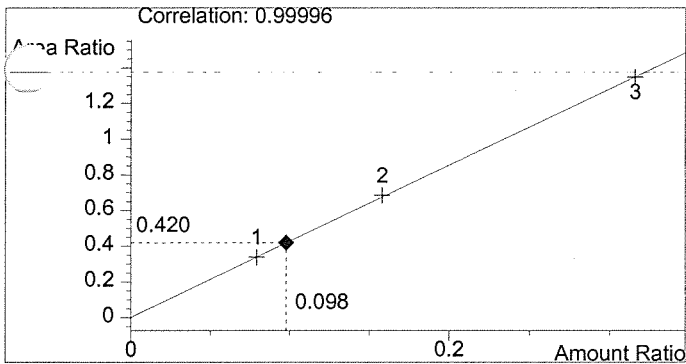
Q.A. Sol. 03002
 Estuardo J. Miranda

vial # 40

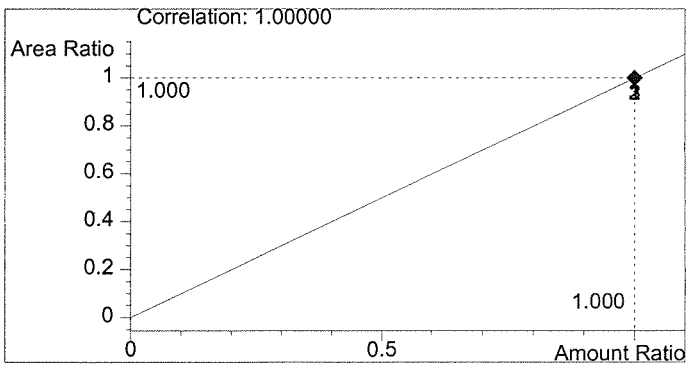


#	Compound	Area	RT
1	Ethanol	1641	1.044
2	n-Propanol	3912	1.703

Totals:



Ethanol 0.098 g/100ml



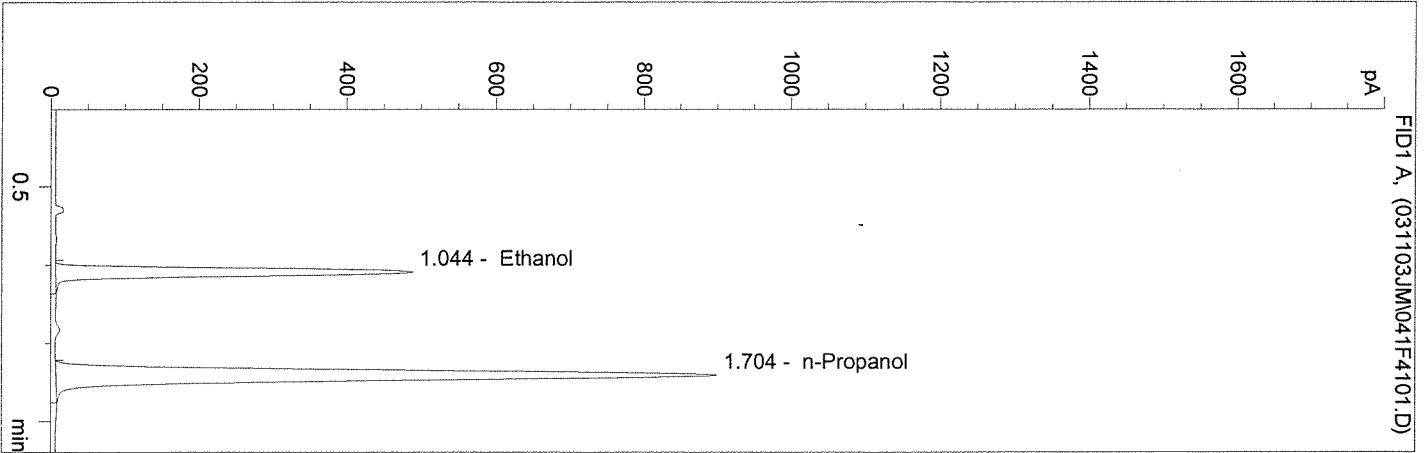
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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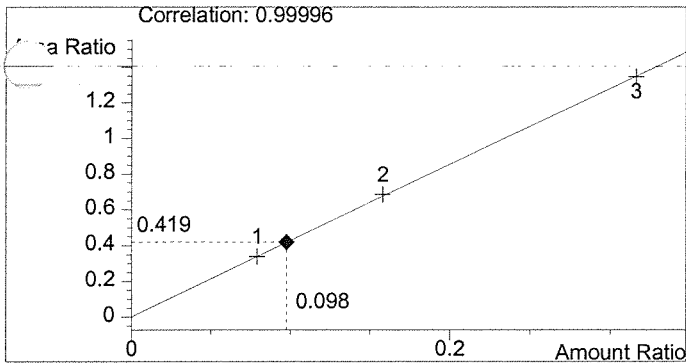
Q.A. Sol. 03002
 Estuardo J. Miranda

vial # 41

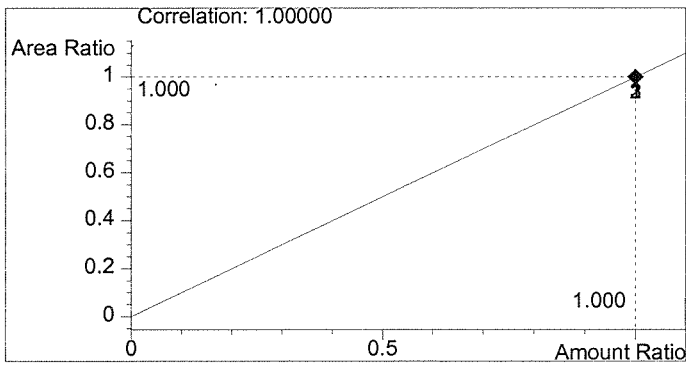


#	Compound	Area	RT
1	Ethanol	1632	1.044
2	n-Propanol	3896	1.704

Totals:



Ethanol 0.098 g/100ml



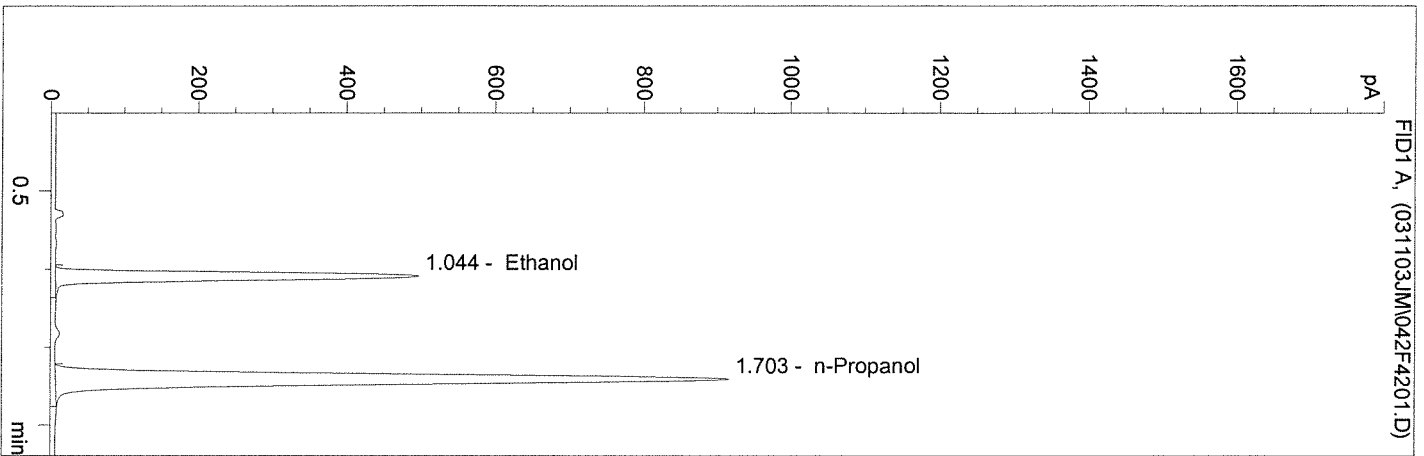
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO.M
 1/11/03 3:12:49 PM
 Instrument 1
 -ALC1

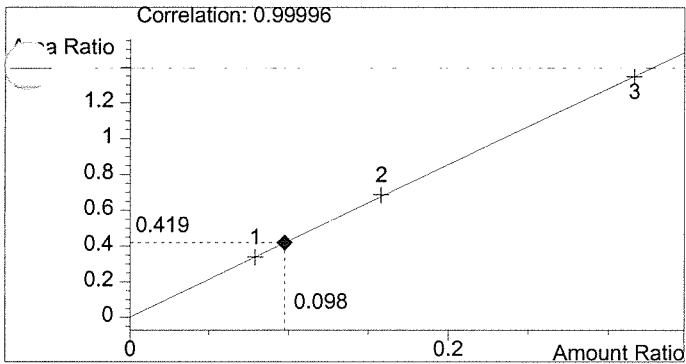
Q.A. Sol. 03002
 Estuardo J. Miranda

vial # 42

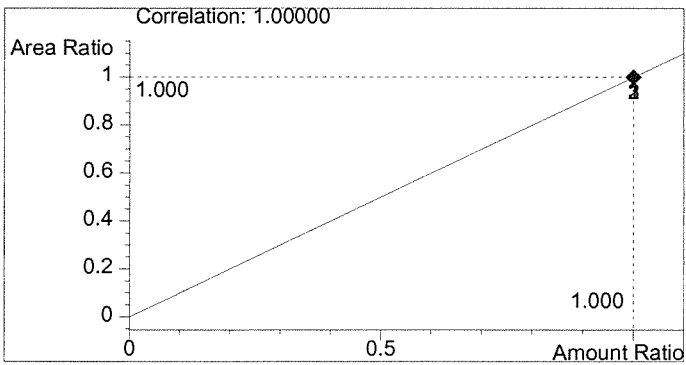


#	Compound	Area	RT
1	Ethanol	1670	1.044
2	n-Propanol	3986	1.703

Totals:



Ethanol 0.098 g/100ml



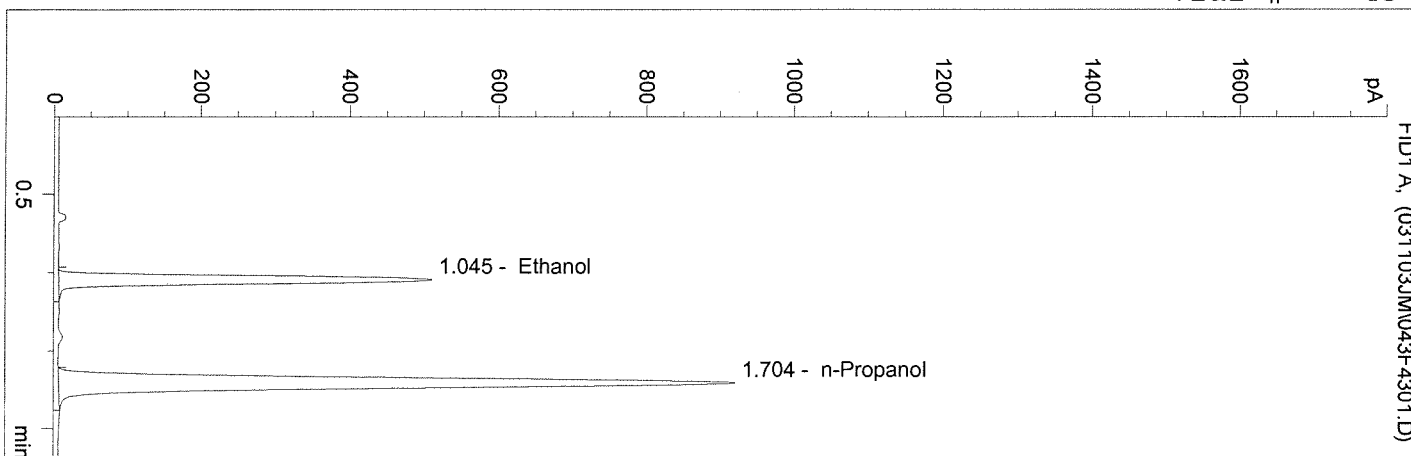
n-Propanol 1.000 g/100ml

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C:\HPCHEM\1\METHODS\BLDALCO.M
 1/11/03 3:15:53 PM
 Instrument 1
 -ALC1

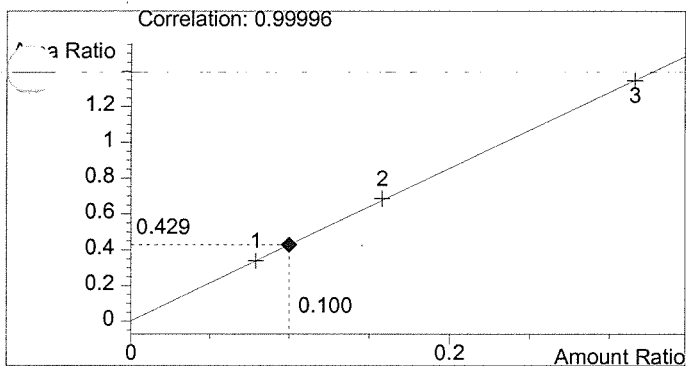
0.100 Control
 Estuardo J. Miranda

vial # 43

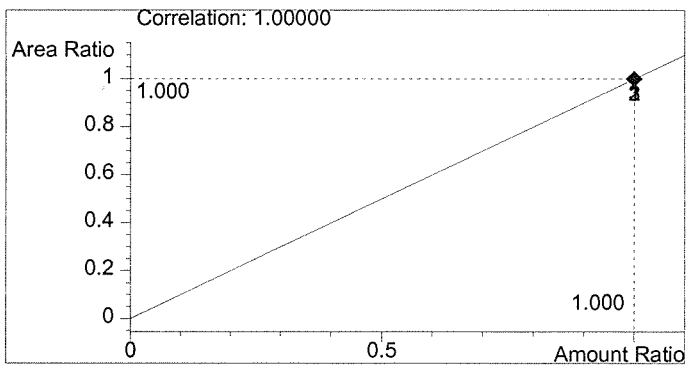


#	Compound	Area	RT
1	Ethanol	1726	1.045
2	n-Propanol	4018	1.704

Totals:



Ethanol 0.100 g/100ml



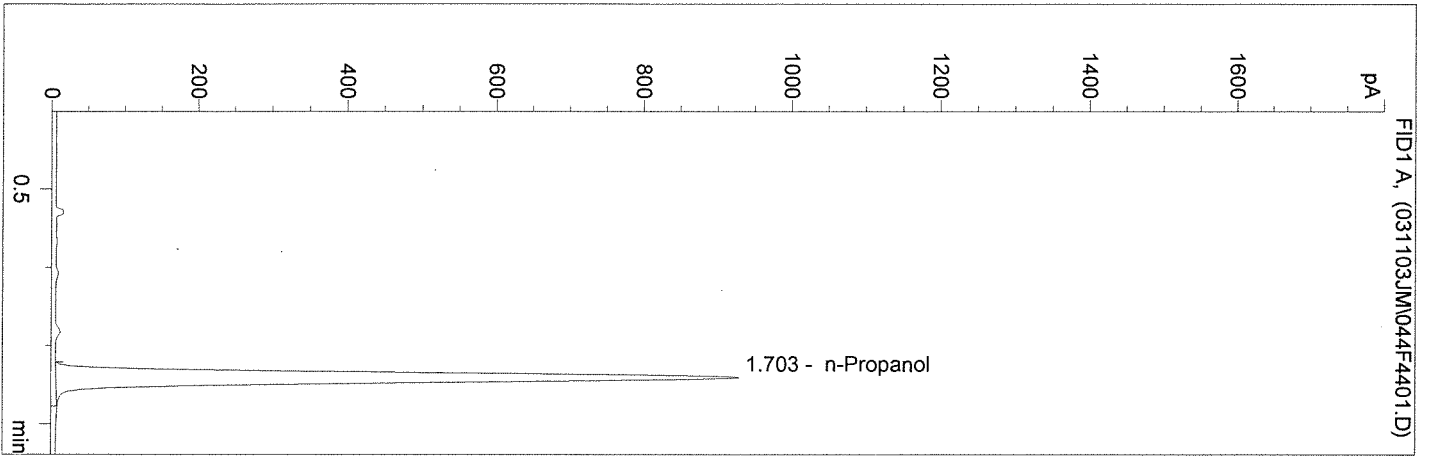
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO.M
 1/11/03 3:18:56 PM
 Instrument 1
 -ALC1

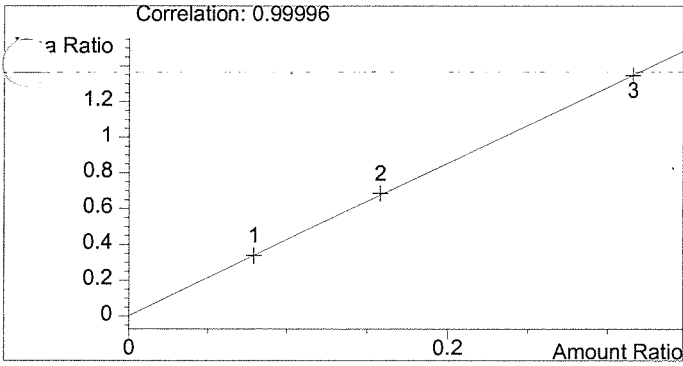
Blank
 Estuardo J. Miranda

vial # 44

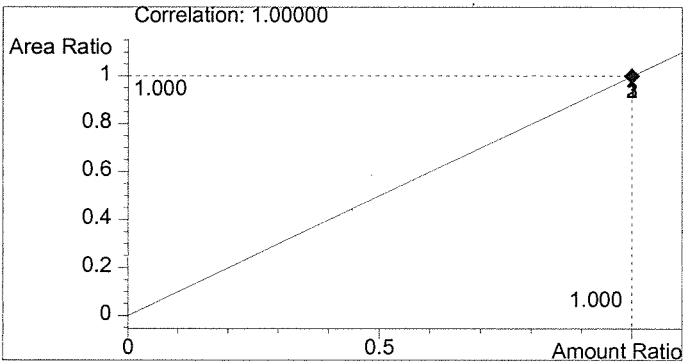


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	4010	1.703

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml